

AB Wool® Glasswool



FEATURES

AB Wool Insulation are lightweight, flexible and resilient, they provide excellent thermal insulation for flat or low pitched roof using metal decking or asbestoscement roofing sheet. In places where condensation exists. AB Wool Insulation glasswool must be faces with a reflective alumunium foil vapour barrier.

PRODUCT APPLICATION

AB Wool Insulation glasswool are used for external lagging air condition ducts and thermal insulation of roof, etc.

MOISTURE ABSORPTION

When tested in an atmosphere of 65% relative humidity at 20°C (in accordance with British Standard 2972-1975), the moisture content of AB Wool Insulation glasswool is 0,1% by volume.

AKALINITY

When tested in accordance with British Standard 3958 AB Wool Insulation glasswool is slightly alkaline pH9.

MAXIMUM SERVICE TEMPERATURE

The maximum service temperature for AB Wool Insulation glasswool is 340°C. Where facing are applied, the temperature tolerances of the facing adhesive limit the surface temperature to be 70°C. (The appropriate insulation thickness can be used to limit surface temperature to 70°C.)

PHYSICAL CHARACTERISTICS

Type	Blanket				Sheet			
Nominal Density (kg/m) ³	16	24	32	48	16	24	32	48
Nominal Thickness (mm)	25	50	25	50	25	50	25	50
Standard Width (m)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Standard Length (m)	30	15	30	15	30	15	2.3	2.3
Mass Perunit Area (kg/m) ²	0.40	0.80	0.60	1.20	1.80	1.60	1.20	2.40

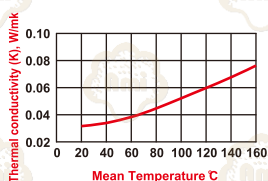
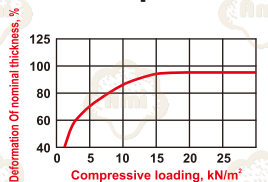
SOUND ABSORPTION CO-EFFICIENT

AB Wool Insulation glasswool has the following sound absorption coefficient when tested in accordance with AS 1045 - 1971 by th Reverberation Room Method. Tests were carried out with no air space behind the samples, and results are based on test reports from C.S.I.R.O. or other N.A.T.A Registered laboratories.

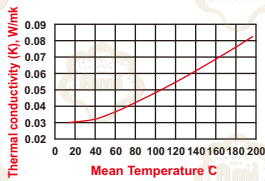
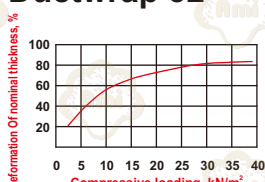
Sound Absorption Coefficient (reverberation)								
Nominal Density	Nominal Thickness	Frequency - Hz						
(kg./m) ³	(Mm)	125	250	500	1000	2000	NRC	
16	25	0.28	0.30	0.37	0.61	0.78	0.52	
16	50	0.25	0.47	0.74	0.79	0.81	0.70	
24	25	0.16	0.27	0.57	0.79	0.90	0.63	
24	50	0.26	0.55	0.92	1.05	1.04	0.89	
32	25	0.15	0.33	0.64	0.77	0.88	0.65	
32	50	0.26	0.59	0.98	1.04	1.03	0.90	
48	25	0.08	0.25	0.64	0.90	1.05	0.71	
48	50	0.27	0.79	1.11	1.18	1.10	1.05	

Result tested in accordance with AS 1045 - 1976 By the Reverberation Room Method

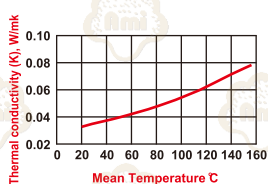
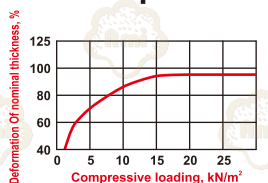
Ductwrap 16



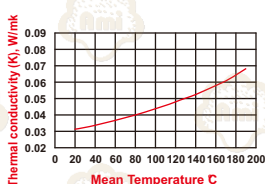
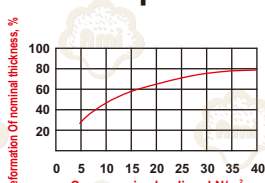
Ductwrap 32



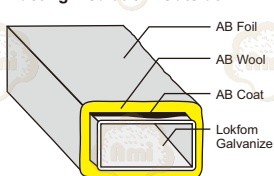
Ductwrap 24



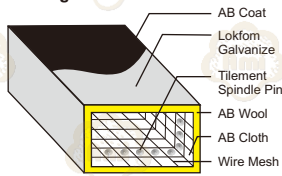
Ductwrap 48



Ducting Insulation: Outside



Ducting Insulation: Inside



PHYSICAL CHARACTERISTICS

Type	Sheet					
Nominal Density (kg/m ³)	48		40	60	80	100
Nominal Thickness (mm)	25	50	50	50	50	50
Standard Width (m)	1.2	1.2	0.6	0.6	0.6	0.6
Standard Length (m)	2.3	2.3	1.2	1.2	1.2	1.2
Contains (Pcs)	5	10	6	6	6	6

FIRE PERFORMANCE

AB Wool Insulation glasswool products are non-combustible. When it is exposed to the conditions of the test specified in British Standard 476: Part 4: 1970 "Fire Test on Building Materials and Structures - Non-combustibility Test for Materials".

RESULT:

Description	Specimen 1	Specimen 2	Specimen 3	Requirements
Time of continuous flaming (sec.)	0	0	0	<10
Temperature rise of furnace (°C)	28	21	19	<50
Temperature rise of sample (°C)	0	0	0	<50
Classification	Non-Combustion	Non-Combustion	Non-Combustion	



THERMAL CONDUCTIVITY (K-Value)

- Density 16 kg/m³ (0.037 W/mk) at 20°C mean temperature (0.257 BTU-in/hr.ft²°F at 68°F mean temperature.)
- Density 24 kg/m³ (0.035 W/mk) at 20°C mean temperature (0.243 BTU-in/hr.ft²°F at 68°F mean temperature.)
- Density 32 kg/m³ (0.034 W/mk) at 20°C mean temperature (0.236 BTU-in/hr.ft²°F at 68°F mean temperature.)
- Density 48 kg/m³ (0.033 W/mk) at 20°C mean temperature (0.229 BTU-in/hr.ft²°F at 68°F mean temperature.)

* Mean temperature = (T1+T2)/2

Where T1 = Temperature of hot side of insulation

T2 = Temperature of cool side of insulation

ALSO AVAILABLE PRODUCTS:

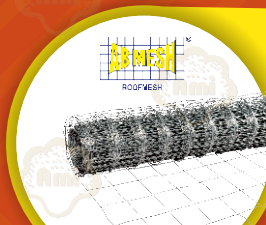
At mean temperature 20°C (metric value) and 68°F (imperial value)									
Type	Blanket				Sheet				
Nominal Density (kg./m ³)	16		24		32		48		
Nominal Thickness (mm)	25	50	25	50	25	50	25	50	
Thermal Conductivity	W/mK		0.037	0.037	0.035	0.035	0.034	0.033	0.033
(K)	BTU in/hr.ft ² °F		0.257	0.257	0.243	0.243	0.236	0.229	0.229
Thermal Conductance	W/m ² K		1.48	0.74	1.40	0.70	1.36	0.68	1.32
(C)	BTU in/hr.ft ² °F		0.26	0.13	0.24	0.12	0.24	0.12	0.11
Thermal Resistance	m ² K/W		0.67	1.35	0.71	1.43	0.74	1.47	0.76
(R)	hr.ft ² °F/BTU		3.89	7.78	4.12	8.23	4.24	8.47	4.37



LOKFOM BJLS



AB FOIL
ALUMINIUM FOIL



AB MESH
ROOFMESH



TILEMENT
SPINDLE PIN

ADVANTAGES:



ENERGY
CONSERVATION



TEMPERATURE
CONTROL



NOISE
REDUCTION



CONDENSATION
CONTROL



AFFORDABLE
PRICE



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